

ABSTRACT

The present invention discloses a complex of clay and polyoxyalkylene amine and a method for producing the same. The clay in the present invention is layered and includes silicate, and the
5 polyoxyalkylene amine with molecular weight over 1,800 is provided as an intercalating agent to enlarge interlayer distances of the clay at an unprecedented spacing. The method for producing the complex is primarily to acidify the polyoxyalkylene amine with an inorganic acid, which is then mixed with the clay swelled with water previously; and the
10 mixture is then powerfully stirred at 60-80°C for cation exchanging to obtain the titled inorganic/organic complex. According to the present invention, the complex is an excellent surfactant and a reinforcing agent of polymers.